G.E.C. JOURNAL

OF

SCIENCE AND TECHNOLOGY

VOLUME 29, 1962

Published by: **THE GENERAL ELECTRIC COMPANY LIMITED OF ENGLAND**

Head Office: Greycoat House, Greycoat Place, Victoria, S.W.1

Correspondence to: Editorial and mailing offices, Erith, Kent

INDEX

volume 29, 1962

Inclusive page numbers for the year's issues are :

No. 1 (February) ..... 1 to 60
No. 2 (June) ..... 61 to 116
No. 3 (October) ..... 117 to 168

PAGE

A

Airborne digital computer DEXAN—The 3
Approaches to underpasses—Lighting and visibility in the 119
Auto-recording photometer and associated lamp-parameter computation 55

B

Bismuth telluride and some of its alloys 158
Blade-vibration measurements on rotating turbine wheels 86

C

Chemistry and technical services, Central Research Laboratories 63
Colour-television receivers and monitors—G.E.C. 32
Computer—The airborne digital, DEXAN 3
Current designs of large reheat turbines and their development 46

D

Deck-landing projector sight for the Admiralty 71
DEXAN—The airborne digital computer 3
Diesel-electric vessel 'John Wilson'—The 41
Diodes—High-speed switching 130
Diodes—Silicon variable-capacitance, as harmonic generators at microwave frequencies 84
Diodes—Variable-capacitance 80

PAGE

F

Fan-noise measurement 141
Fill-up:
Measuring the response of novel high-speed storage elements for computers 129

G

G.E.C. colour-television receivers and monitors 32

H

Harmonic generators at microwave frequencies—Silicon variable-capacitance diodes as 84
High-speed switching diodes 130

J

'John Wilson'—The diesel-electric vessel 41

L

Lamp-parameter computation—Auto-recording photometer and associated 55
Lamp—The quartz-iodine tungsten, mechanism, design and performance 99
Large reheat turbines and their development—Current designs of 46
Lasers—Masers and 92
Lighting and visibility in the approaches to underpasses 119

M

Masers and lasers 92
Measurements on rotating turbine wheels—Blade-vibration 86
Mechanism, design and performance—The quartz-iodine tungsten lamp 99

PAGE

Modern winding wires—a survey.....134
Monitors—G.E.C. colour-television receivers and 32

O

Opacifiers in opal glasses through the ages 20

P

Photometer—Auto-recording, and associated lamp-parameter computation 55
Power-system design—new techniques.....9
Projector sight—Deck-landing, for the Admiralty 71

Q

Quartz-iodine tungsten lamp, mechanism, design and performance—The 99

R

Reactors—a.c. saturated, Voltage-flicker compensation with.....107
Rectifier—The silicon-controlled, and its applications 27
Rotating turbine wheels—Blade-vibration measurements on 86

S

Silicon-controlled rectifier and its applications—The 27
Silicon variable-capacitance diodes as harmonic generators at microwave frequencies 84

PAGE

Synopses (Issue 1).....60
Synopses (Issue 2) 116
Synopses (Issue 3) 168

T

Technical literature.....115
Television receivers and monitors—G.E.C. colour- 32
Testing large turbo-generators with saturable transductors.....152
The airborne digital computer DEXAN.....3
The diesel-electric vessel 'John Wilson' 41
The quartz-iodine tungsten lamp—mechanism, design and performance 99
The silicon-controlled rectifier and its applications.....27
Turbines—Current designs of large reheat, and their development.....46
Turbine wheels — Blade-vibration measurements on rotating.....86

U

Underpasses—Lighting and visibility in the approaches to.....119

V

Variable-capacitance diodes 80
Voltage-flicker compensation with a.c. saturated reactors.....107

W

Wires—Modern winding, a survey.....134